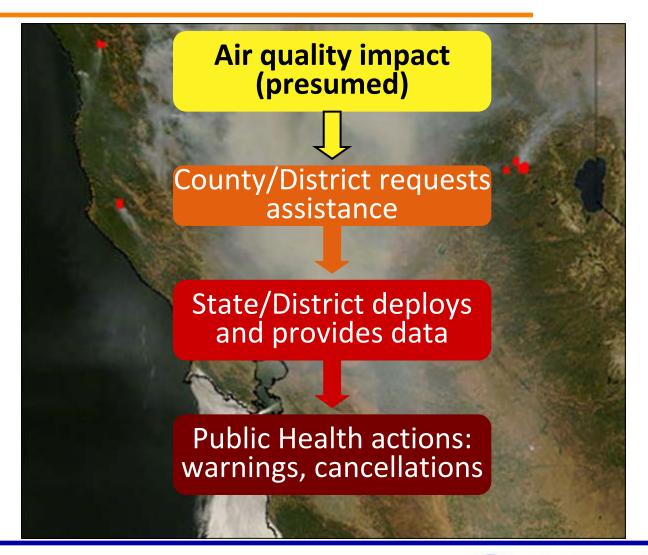






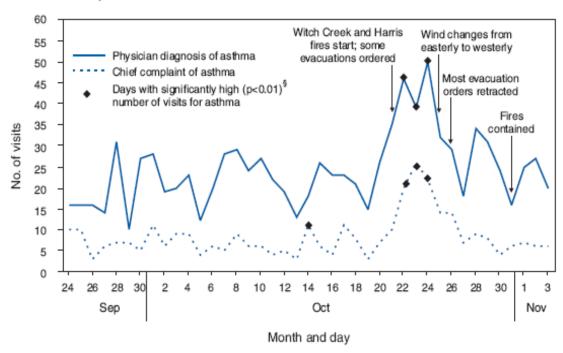
### Data to Message





# Wildfire Smoke Health Impact

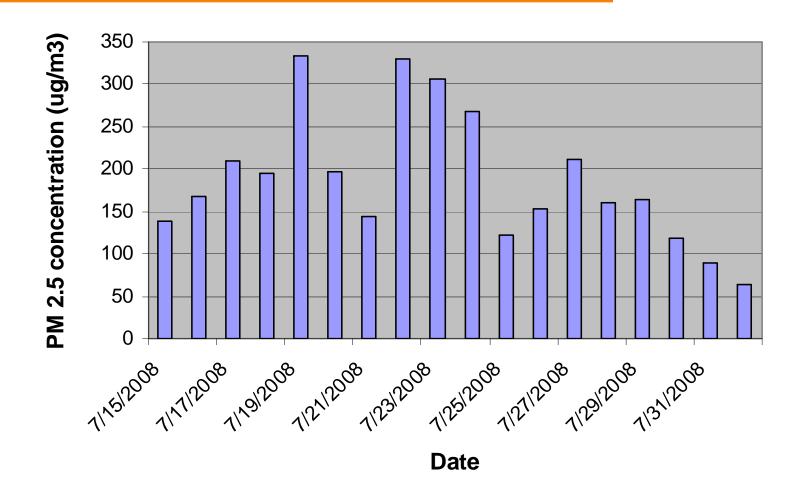
FIGURE 2. Number of emergency department visits, by chief complaint\* and diagnosis† of asthma — six hospitals, San Diego, California, September 22–November 17, 2007



Source: Centers for Disease Control, Morbidity and Mortality Weekly Report, July 11, 2008, 57(27);741-747.



### Trinity County air quality (24hr avg)



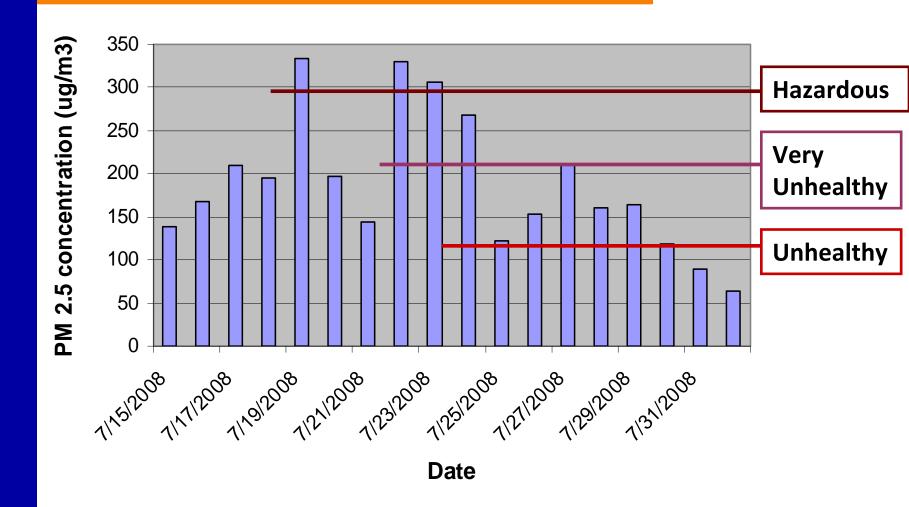


# Wildfire Smoke Guide (Rev. 2008)

AQI Values	<b>PM 2.5</b> (ug/m3; 24hr avg)	Health Effects
Good (0 to 50)	0-15	None expected
Moderate (51 to 100)	16-35	Possible aggravation of heart, lung disease
Unhealthy for Sensitive Groups (101 to 150)	36-65	Increased likelihood of respiratory or cardiac symptoms, especially in sensitive persons
Unhealthy (151 to 200)	66-150	Increased aggravation of CVD; premature mortality; general population respiratory effects
Very Unhealthy	151-250	Significant aggravation of heart, lung disease; premature mortality; significant respiratory effects
Hazardous	>250	Serious aggravation of heart, lung disease; premature mortality; serious respiratory effects



### Trinity County air quality (24hr avg)





Actions based on AQ data

Health officers, air districts issue warnings/cancellations

Local & tribal emergency declarations

Clean air shelters; portable HVACs

Distribute respirators and guidance



### **Public Health Actions**

# **Protect Your Lungs from Wildfire Smoke**





N95 respirators can help protect your lungs from wildfire smoke. Straps must go above and below the ears.

Wildfire smoke can irritate your eyes, nose, throat and lungs. It can make you cough and wheeze, and can make it hard to breathe. If you have asthma or another lung disease, or heart disease, inhaling wildfire smoke can be especially harmful.

If you cannot **leave** the smoky area, good ways to protect your lungs from wildfire smoke include staying indoors and reducing physical activity. Wearing a special mask called a "**particulate respirator**" can also help protect your lungs from wildfire smoke.

### How to Choose the Correct Mask to Protect Your Lungs

- Choose a mask called a "particulate respirator" that has the word
   "NIOSH" and either "N95" or "P100" printed on it. These are sold at many
   hardware and home repair stores and pharmacies.
- Choose a mask that has two straps that go around your head. DO
   NOT choose a mask with only one strap or with straps that just hook
   over the ears.
- Choose a size that will fit over your nose and under your chin. It should seal tightly to your face. These masks do not come in sizes that fit young children.



### Air Quality Alerts

North Coast Unified Air Quality
Management District
2300 Myrtle Avenue, Eureka, CA 95501
Telephone (707) 443-3093 FAX (707) 443-3099
http://www.ncuagmd.org



#### **Hazardous Conditions**

#### Air Quality Alert Issued 7-23-08 4:00 PM

For the following areas: <u>Trinity County</u>: Hayfork, Hyampom & Weaverville

Smoke Levels in these areas has been classified as **HAZARDOUS**. Smoke in these areas is creating a health hazard. People are recommended to avoid any outdoor activity.

If you have symptoms that may be related to excess smoke exposure, including repeated coughing, shortness of breath or difficulty breathing, wheezing, chest tightness or pain, palpitations, nausea or unusual fatigue or lightheadedness, contact your health care provider immediately.

#### Recommendations for limiting smoke exposure:

- Stay in a "clean room" at home. A clean room is a room where there are no indoor sources of smoke or particle sources, an air cleaner is used, and/or an air conditioner is used in re-circulate mode.
- Keep doors and windows sealed at much as possible. Take precautions against Heat Stroke.
- Avoid using exhaust fans (kitchen, bathroom, etc) as they draw smoke from the outside into your home.
- · Keep the garage-to-home door closed.
- · If you use an air conditioner, use it in re-circulate mode.
- Avoid other sources of pollutants, such as tobacco smoke, frying or broiling foods, burning candles, vacuuming, using paints, solvents, cleaning products and adhesives.
- · Use groceries that don't require cooking.
- . When smoke conditions improve, air out your house.

For 24-hour Air Quality Advisory Information, call toll-free at (866) 287-6329 and press (5) on your touch tone phone. For additional local information, please visit the North Coast Unified Air Quality Management District's Website at <a href="https://www.ncuaqmd.org">www.ncuaqmd.org</a>. Please visit the CAPCOA website at <a href="https://www.airquality.org/smokeimpact">www.airquality.org/smokeimpact</a> for additional health information.

NORTH COAST UNIFIED AIR QUALITY MANAGEMENT DISTRICT (707) 443-3093



## State Emergency Proclamation



ARNOLD SCHWARZENEGGER The People's Governor

"WHEREAS the wildfires in Humboldt County and throughout California have generated unprecedented smoke conditions, creating unhealthy air and posing a continuing danger to people; and

WHEREAS the Hoopa, Karuk, and Yurok Tribal Nations have declared local emergencies for their reservations in and near Humboldt County as a result of the fires and the unhealthy air caused by the fires and smoke; and

...

NOW, THEREFORE, I, Arnold Schwarzenegger, Governor of the State of California, in accordance with the authority vested in me by the state Constitution and statutes, including the California Emergency Services Act, and in particular, section 8625 of the California Government Code, HEREBY PROCLAIM A STATE OF EMERGENCY to exist within the County of Humboldt.



# Working with the Media





Community will judge credibility, empathy, competence, honesty

Highest credibility: health professionals first responders teachers

First 30 seconds of message is crucial



### Message Mapping

- A tool to clarify and simplify message
- 3 key messages (10 words, 30 sec)
- 3 supporting statements

Credit: Vincent T. Covello, PhD, Director of the Center for Risk Communication



Anatomy of a Message Map			
Key Message 1	Key Message 2	Key Message 3	
Supporting Fact 1-1	Supporting Fact 2-1	Supporting Fact 3-1	



Tell the truth. Be transparent.

State conclusion <u>first</u>, then supporting data

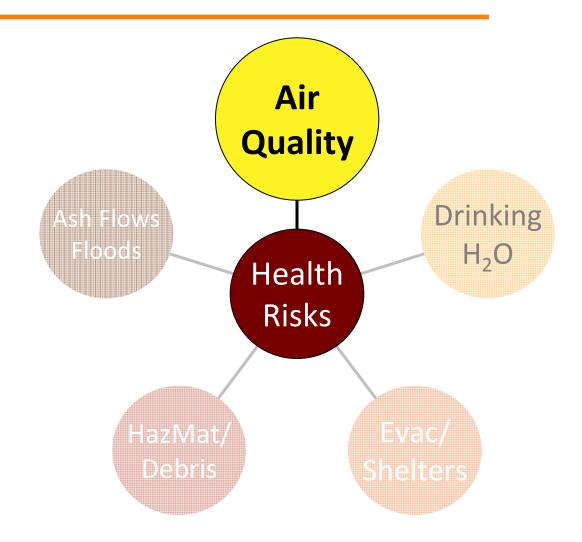
Key Message

Share dilemmas and empathize

Embody your agency's identity

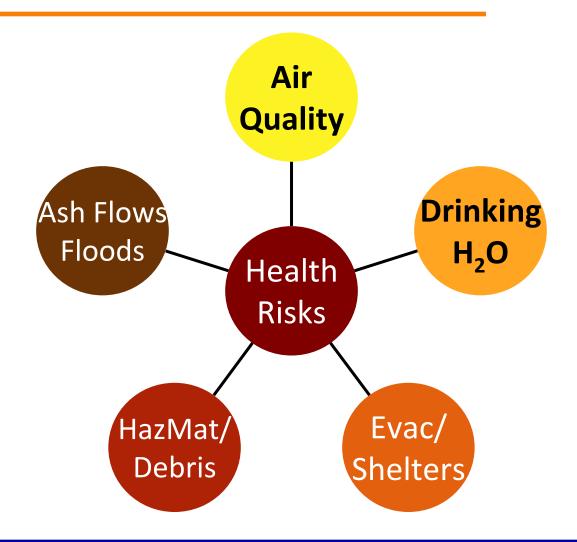


### Public Health Issues with Wildfires





### Public Health Issues with Wildfires





### **Final Points**

- ✓ Wildfire Smoke Guide
- ✓ Sharing data www.airnow.gov
- ✓ Get to know partners before an emergency
- ✓ Strive for consistency in public health actions and messages across jurisdictions
- ✓ Don't wait for the public to come to you

